

MECHANICAL CONNECTOR

ABSTRACT

A mechanical connector includes a male portion and a female portion, that are adapted to quickly and easily connect and disconnect to and from each other while providing for a secure and tight-fit connection that is able to pass lateral force there through. The male portion includes a base having a mating surface, a first locking member having one or more outwardly protruding lugs, and a guide rod. The female portion includes a base having a mating surface and an aperture, a second locking member in the form of a cavity, and a bore adapted to accept the guide rod. Rotation of the male and female portions relative to each other causes the first and second locking members to securely engage, which forces the bases of the male and the female portions together and to be locked in place to form the secure connection.